

85757

21-5200  
NOTED

Verobank, A.S., Leobling, A. In: Social Life  
of the Fish and the River, 1971.

[illegible]

**1991**

Character	Count	Total	Internal	Reflector
1	1	1	1	1
2	1	1	1	1
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MEASUREMENTS: 1975-76  
pp. 129 - 131

pp. 119 - 121

**TEXT:** The counter is shown schematically in Fig. 1. The Cherenkov radiation produced by a charged particle passing through the radiator strikes the front and at various angles, depending on the velocity of the particle. For particles with a velocity  $\beta = (n_1^2 - n_2^2)^{-1/2}$  the angle of incidence is equal to the angle of total internal reflection. The Cherenkov radiation due to particles with velocities greater than  $\beta_c$  experiences total internal reflection and is absorbed by the rear wall of the counter which is covered by black velvet. In the case of particles having a velocity smaller than  $\beta_c$ , the radiation leaves the radiator and strikes two photomultipliers placed below the particle beam.

Card 1/3

Case 1/3

Each photomultiplier has a separate output and a special circuitry to improve the light collection. The major advantage of the counter was introduced in the form of the photomultiplier of the Laboratory of Nuclear Physics of the University of Padua, which is the prototype of the problem of the Laboratory of Nuclear Physics of the University of Padua. In the case of a 2.0 mV/c

or, second, the efficiency of the separator was found to be between 0.0 and 0.5, depending on the type of photoemitter utilized. A similar device has been described by Arce et al. in Ref. 2. However, the efficiency in the latter work was 0.1. Although details are not presented in V. V. Vukobratovic's paper, there are 2 references and references therein and 3 figures. Summary Institut yadroyarnykh i elementarnykh chazhben Institut fizikiy Akademii nauk SSSR (Joint Institute for Nuclear Studies)

**REMARKS:**

September 2, 1959

Card 2/3

VOYENKO, A.S.; LYUBIMOV, A.L.; SAVIN, I.A.; STAVINSKIY, V.S.; STOICHEV, T.T.

Cherenkov counter utilizing total internal reflection. Prib. i tekhn.  
eksp. no.5:119-121 3-0 '60. (MIRA 13:11)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Cherenkov radiation) (Nuclear counters)

L 1107-66 LT(41/511(1)/511(5)/511(5)/511(5)/T-2/511(5)/511(5)/511(5) WU/H  
ACC NR: AF5026557 UH/0286/65/000/019/0113/0113  
621.43.06:621.45-225.3

INVENTOR: Stoychev, V. V.

ORG: none

TITLE: Variable turbojet-engine nozzle with a noise suppressor. Class 46,  
No. 175353

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 113

TOPIC TAGS: turbojet engine, exhaust nozzle, nozzle design, nozzle area

ABSTRACT: A variable turbojet-engine nozzle, having a noise suppressor, pipes through which the air ejected by the gas flow moves, and swing flaps controlled by actuating cylinders with rods, is introduced. With a view to expanding the range of variation in the nozzle exit area and increasing the degree of noise suppression by mixing the gas with the additionally ejected air between the flaps, the latter are made in the form of specially shaped lobes girdled by a ring connected to the rods by hinges. A variation of the nozzle is distinguished by the presence of grooves in the nozzle casing on both sides of each lobe to assure their sealing. A second variation is distinguished by the fact that the lobes are joined by grooves made on one side of each lobe. [11]

SUB CODE: PR,AC/ SUBM DATE: 01Jun62/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4/25

Cord 1/1

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44871  
S/081/62/000/024/069/073  
B166/B186

AUTHORS: Gutsov, St., Stoycheva, V.

TITLE: Production and properties of glass from syenite in the system  
 $\text{SiO}_2 - \text{Al}_2\text{O}_3 - \text{CaO} - \text{MgO} - \text{K}_2\text{O}$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 584-585,  
abstract 24K342 (Godishnik Khim.-tekhnol. in-t, v. 7, nos.1-2,  
1960 (1961), 119 - 136 [Bulg.: summaries in Russ. and Ger.]

TEXT: Glass was synthesized on the basis of potassium-alkali Svidnya syenite from the Svogen region corresponding in composition to a ternary diagram consisting of leucite, diopside and quartz, this composition coinciding with the content of iron-free syenite ( $\text{SiO}_2 - \text{Al}_2\text{O}_3 - \text{CaO} - \text{MgO} - \text{K}_2\text{O}$ ). Three groups of glasses were synthesized: A, B and C. A Cn series was synthesized from the latter by substitution. Because of their high viscosity no practical application was found for glasses of group A. The glasses of group C are recommended for the production of architectural and building glass, gauge glass, glass wool and glass insulators not requiring Card 1/2

Production and properties ...

S/081/62/000/024/069/073  
B166/B186

complete decolorization. Packaging and bottle articles can be produced  
from group Cn glasses. Abstracter's note: Complete translation.]

X

Card 2/2

EC NR: AT6036571

SOURCE CODE: UR/0000/66/000/000/0183/0184

20

AUTHOR: Ioffe, L. A.; Stoyin, Yu. M.; Vasil'yeva, T. B.

ORG: none

TITLE: Dynamics of the functional state of the circulatory apparatus in athletes under conditions of limited motor activity [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 183-184

TOPIC: hypodynamia, cardiovascular system, nervous system, human physiology, space physiology

ABSTRACT: Prevention of the adverse effects of limited motor activity on the activity of the cardiovascular system is one of the most important problems of space physiology. Studies of hypokinesia of various durations have shown that exposure to this factor causes deterioration in the quality of circulatory apparatus regulation, this deterioration manifesting itself in autonomic nervous system shifts, decreased orthostatic tolerance, changes in capillary resistance, and so forth (A. L. Myasnikov et al., Yu. V. Vanyushina, Dietlein, Lamb et al., and others).

At the same time it has been shown that special physical exercises

Cord 1/4

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ACC NR: AT6036571

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have a positive effect on the maintenance of circulatory system functions (Lamb et al., Sjostrand). It is well known that physical training improves the quality of circulatory apparatus regulation. The quality of cardiac activity in athletes in a state of rest is sustained by powerful cholinergic effects which are most pronounced in the case of endurance training.

These considerations determined the goal of the present investigation, which studied the effect of 10 days of strict bed-rest on the electrical activity of the heart and on indices of cardiodynamics and arterial pressure in highly-qualified weight-lifters and long distance runners. The dynamics of these indices were studied during maximal strain (treadmill speed and endurance runs) and passive orthostatic tests daily for 3 days before and after hypokinesia. The functional state of the circulatory apparatus in the athletes under study indicated a high state of training. At the same time, differences were noted between the weight-lifters and light athletes (slower heart rhythm in runners at rest, percentage of respiratory arrhythmia in orthostasis, the appearance of electrical alternation during strain, the character of changes in atrial ventricular conductivity during muscular effort and orthostatic tests and so forth); these differences were due to the more pronounced effects of the vagus nerve in the runners.

Card 2/1



SC NR: AT606471

Exposure to hypokinesia resulted in near equalization of the differences in the above-mentioned cardiac activity indices. During hypokinesia, the runners showed more pronounced shifts than under initial conditions. Changes in cardiac rhythm, electrical activity of the heart, and the phase structure of the left ventricular systole (both at rest and during exertion) indicated impairment of the quality of cardiac activity regulation and a decrease in the contractility of the myocardium. V. Ye. Vasil'yeva noted a decrease in the rate of propagation of pulse waves along muscular-type vessels in these same subjects. It should be noted that orthostatic tolerance was greater in the weight-lifters than in the runners.

A notable increase occurred in the amplitude of the  $Tv_1-2$  waves, apparently due to the elimination of the hydrostatic factor, temporary increase in venous return (Sjostrand), and pooling of blood in the respiratory loop (V. V. Paris). This suggests that the increased  $Tv_1-2$  is related to intensified functional activity of the right heart.

Normalization of indices of the functional state of the circulatory apparatus was complete by the 2nd to 3rd day after the end of hypokinesia. Athletic training gives advance assurance that changes in cardiac activity regulation will have a more favorable character than in untrained persons. At the same time these changes do not depend on the degree of vagotonia

Cord 3/4

1. 10/20/67

ACC NR: AT6036571

(since in runners, the functional units were not in operation in the weight-lifters). (W.A. No. 22; ATB Report 16-111)

SUB CODE: 06 / SUBM DATE: 10/20/67

Card 4/4

ANZHELESKU, Ye. [Angelescu, E.]; SIMIONESKU, N. [Simionescu, N.];  
DAMIAN, A.; OPRAN, G.; STOYENESKU, D. [Stoenescu, D.];  
OPROYU, A. [Oproiu, A.] (Rumyniya)

Surgical treatment of malignant tumors of the thyroid gland with  
metastases into the cervical lymph nodes. Probl.endok.i gorm.  
no.4:83-90 '62. (MIRA 15:11)  
(THYROID GLAND—CANCER) (LYMPHATICS—CANCER)

MILCU, S.A. [Milcu, S.A.]; ANZHELESKU, Ye. [Angelescu, E]; DAMIAN, A.  
[DAMIAN, A.]; STOYENESKU, D. [Stoerescu, D.]; OPRAN, Kh. [Opran, H.]  
OPROIU, A. [Oproiu, A.]; IORGULESKU, G. [Iorgulescu, G].

Virilizing malignant tumor of the adrenal gland. 14a Probl. endok.  
i form 8 no. 2:96-103 Mr-Apr'62. (MIRA 16:7)  
(ADRENAL GLAND--CANCER) (VIRILISM)

KARLOV, V.I.; KHROMOV, A.M.; KOSOV, M.Ye.; KROZOV, V.Ye.; LISOV, G.N.;  
POYARKO, I. I.; PRIGONITSKIY, D.M.; VAYNSHTEYN, B.I.; SYRKUS, V.P.

Large-scale radiation-chemistry plant with irradiator made from  
spent nuclear fuels. Atom. energ. 15 no.4:302-308 O '63.

(MIRA 16:10)

STOYEV, Georgi Iliyev; AKSENOV, P.P., red.; LEBEDEVA, I.D., red. izd-va;  
LOBANKOVA. R.Ye., tekhn. red.

[Determining the maximum output of lumber] Opredelenie maksimal'nogo  
vykhoda pilomaterialov. Moskva, Goslesbumizdat, 1961. 62 p.  
(MIRA 14:12)

(Sawmills)

STOYEV, I.S.

STOYEV, I.S., nachal'nik; TOKAREV, V.S., nachal'nik.

Sixty six and one tenth meter of shaft sinking per month. Mekh.trud.rab.  
7 no.8:17-23 Ag '53. (MLBA 6:8)

1. Prokhodkashakhty "Vetka-Glubokaya" (for Stoyev).
2. Pervoye prokhodcheskoye stroitel'noye upravleniye tresta Stalinshakhtoprokhodka.  
(Shaft sinking)

USSR/Mining

Stoyev, I. S.

Card 1/1

Authors : Stoyev, I. S , Mining Engineer

Title : Sinking of cage shaft at an average rate of 60 m per month

Periodical : Mekh. Trud. Rab., 2, 19 - 23, March 1954

Abstract : Report describes the work conducted by one of the coal mines in the Don basin (Ignatyevskaya) connected with the sinking of a cage shaft (outer diameter 7.5 m; inner diameter 6.5 m) into a depth of 235 m. The work was completed within 3.5 months which gives it an average of over 60 m per month. The organizational project of the shaft sinking work was developed by the (VNIIONShS) All Union Research Institute for Organization and Mechanization of Mine Construction. Tables showing the work organization are given.

Institution : ....

Submitted : ....




STOYEV, I.S.

Completing 140,1 m of large diameter shaft in a month. Makh.  
trud.rab. 8 no.7:24-27 0-N '54. (MIRA 8:1)

1. Glavnyy inzhener 1-go prokhodcheskogo upravleniya tresta  
Stalinskakhtoprokhodka.  
(Shaft sinking)

STOYEV, I S

1. The first step in the process of identifying a problem is to recognize that a problem exists. This involves gathering information about the situation and identifying the specific issue that needs to be addressed.



СПОУКВ, I.S.

202.1 linear meters of vertical shaft per month. Ugol'  
30 no.6:31-37 Je '55. (MIRA 8:8)

1. Glavnyy inzhener 1-go prokhodcheskogo upravleniya tresta  
Stalinshakhtoprokhodka.  
(Shaft sinking)

STOYEV, I. S. A. Горный инженер

Efficient technology in mining and timbering of interconnecting  
loading areas, charging arrangement rooms and other working areas  
directly connected with shafts. Ugol' 30 no.8:28-34 Ag'55.

(MIRA 8:10)

(Shaft sinking) (Mine timbering)

STOYEV, I., laureat Leninskoy premii.

New developments in shaft sinking at Voroshilovgrad mines. Mast.  
ugl. 6 no.10:7-8 0 '57. (MIRA 10:12)

1. Glavnyy inzhener tresta Voroshilovgradshakhtoprokhodka.  
(Donets Basin--Shaft sinking)

STOYEV, I.S., inzh., laureat Leninskoy premii

Increase the final average speed of vertical mine shaft sinking.  
Shakht.stroi. no.633-5 Je '53. (MIRA 12:3)

1. Glavnyy inzhener trasta Luganskshahtopromkhoz.  
(Shaft sinking)



STOYEV, I.S., inzh.

Shaft deepening in reconstructing the "Gerskaia" mine No.1/2.  
Shakht. stroi. 4 no. 5:22-25 My '60. (MIPA 14:4)

1. Trost Luganskshakhtoprokhodka.  
(Lugansk Province--Shaft sinking)



OREKOV, A.O.; GUBANOV, M.S.; STOYEV, I.S.; KORNIYEVSKIY, D.M.

Valuable monograph on boring and blasting operations (Boring and blasting operations in mining" by E.O. Mindelli. Reviewed by A.O. Orekov and others). Ugol' Ukr. 4 no. 11:42 # '60. (MIMA 13:12)

1. Nachal'nik kombinata Luganskshakhtostroy (for Orekov).
  2. Ispolnyayushchiy obyazannosti nachal'nika kombinata Donbassantratsit (for Gubanov).
  3. Glavnyy inzhener tresta Luganskshakhtoprokhodka (for Stoyev).
  4. Zamestitel' nachal'nika kombinata Donbassantratsitshakhtostroy (for Korniyevskiy).
- (Mining engineering)  
(Mindelli, E.O.)

STOYEV, I.S., gornyy inzh.

Lining of vertical shafts. Ugol' Ukr. 5 no.2:27-30 F '61. (MIRA 14:3)

(Shaft sinking)

(Mine timbering)

STOYEV, I.S.

Increasing the average rate of construction of vertical shafts in  
the mines. Ugol' Ukr. 5 no.7:11-12 JI '61. (MIRA 15:1)

1. Glavnyy inzh. tresta Luganskshakhtoporkhodka.  
(Donets Basin--Shaft sinking)

1. The purpose of this study is to determine the effect of the

use of the ventilation of the air during their riding.  
(GHA 19:7)

2. The study was conducted by the Institute of Organization  
and Management, University of California, Los Angeles.  
3. The study was conducted by the Institute of Organization  
and Management, University of California, Los Angeles.

STOYEV, K. D.

see STOYEV, K. D. *Subject*

SIOYEV, St.

Bulgaria

No degree listed

No affiliation listed

Sofia, Farmatsiya, No 5, Sept-Oct 196 , pp 10-12.

"The Question of Material Responsibility in Pharmaceutical Establishments"

STOJEV, St. [Stoyev, St.]; STEPANOV, Cv. [Stepanov, Tav.]

Photoluminescent method for determining the distribution of  
flotation reagents on the surface of coal particles. Paliva  
45 no.2:38-41 F '65.

1. Chair of Dressing of the Faculty of Geology, Sofia.

3000, 3000, 3000, 3000, 3000

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 08-29-2007 BY 60322 UCBAW

1. Representing the tradition of the labor valley organizations;  
2. Representing the tradition of the labor valley organizations.

1. The first of these is the fact that the  
2. Government of Israel has been unable to  
3. bring about a permanent peace in the  
4. Middle East.



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ROMENSKIY, N.V.; KALYUZHNAYA, A.M.; BARER, O.O.; ATANAS, L.O.; STROYEVA,  
O.Z.

Bread baking properties of prospective varieties of wheat.  
Izv.vys.ucheb.sav.; pishch.tekh. no.6:3-4 '59.  
(MIRA 13:5)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina.  
Kafedra khimii zerna i zernovodeniya.  
(Wheat--Varieties)

ROMENSKIY, N.V.; TORZHINSKAYA, L.R.; STOYEVA, O.Z.; MANERAKI, V.V.

Biochemical and baking characteristics of the Michurinka, a hard winter wheat. *Izv.vys.ucheb.zav.; pishch.tekh.no.5:8-11 '60.*  
(MIRA 13:12)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina. Kafedra biokhimi i zerna i zernovedeniya.  
(Wheat)

BOGOMOLOV, A.; KIRILLOV, I.; PROYKA, E.; SOLOVYOV, N. [Solov'ov, N.]

Investigation of short-latency responses evoked by acoustic stimuli from somesthetic or visual zone of unanesthetized cats. Fiziol. zhn . 49 no.12:1391-1399 D '63.

(MIRA 17:12)

I. Institut nevrologii im. I.I. Pavlova Akademi Ruzynskoy  
Izdatiya Meditsiny, Moskva.

VOYKULESKU, V. [Voiculescu, V.]; BROSTIANU, R. [Brostianu, R.];  
VOYNESCU, I. [Voynescu, I.]; STOIKA, I.

Electrical activity of the cortical and subcortical formations  
following ligature of the carotid arteries in cats. Nauch. trudy  
Inst. nevr. AN SSSR no.1:263-270 '60. (MIRA 15:7)

1. Institut neurologii imeni Pavlova Akademii Rumynskoy  
Narodnoy Respubliki, Bukharest.

(CEREBRAL CORTEX) (CAROTID ARTERY-LIGATURE)  
(ELECTROENCEPHALOGRAPHY)

PRAYNTER, A., ed.; KRIGEL', Ye.; STOLYKA, I.

[Epilepsy in children] Detskaia epilepsia. Bucharest,  
Izd-vo Akad. Nauk SSSR, 1963. 269 p.  
(MIRA 16:12)

(EPILEPSY)

(CHILDREN--DISEASES)

IL'IN, S., zhurnalist; RUSAKOVA, V., zhurnalist; BRODOVSKIY, B., zhurnalist;  
SVIRIN, I., zhurnalist; KISHCHIK, P., zhurnalist; STOLKOVICH, M.,  
zhurnalist; PARETSKIY, V., zhurnalist; L'VOV, B., zhurnalist;  
LYUBASHCHENKO, I., zhurnalist; VYSOTSKIY, Ye., zhurnalist;  
KIVOSTOVA, D.M., red.; SHADRINA, N.D., tekhn.red.

[Innovators in the seven-year plan; people with work achievements]  
Zuchinateli novogo v semiletke; liudi trudovogo podviga. Moskva,  
Izd-vo VTsSPS Profizdat. No.7. 1961. 66 p.

(MIRA 15:2)

(Building--Technological innovations)

STOYKO, I.; TABARANU, F., agronom

Technological chart for sugar beet growing. Tekh. v sel'khoz. 20  
no.6:11-15 Je '60. (MIRA 13:10)

1. Predsedatel' kolkhosa imeni XXI s"yezda Kommunisticheskoy partii Sovetskogo Soyuz, Bel'tskogo rayona, Moldavskoy SSR (for Stoyko).
2. Kolkhos imeni XXI s"yezda Kommunisticheskoy partii Sovetskogo Soyuz, Bel'tskogo rayona, Moldavskoy SSR (for Tabaranu).  
(Sugar beets)



PAKHOMOV, N.M.; STOYKO, I.V.

Introduction of an enlarged borehole pattern at the  
open-cut mine of the Rozdol Sulfur Combine. Khim.prom.  
no.10:773-776 0 '62. (MIRA 15:12)  
(Rozdol—Sulfur mines and mining)

TURUTA, U.N., kand. tekhn. nauk; KARIKZHIN, V.A.; GALIMULLIN, A.T.,  
kand. tekhn. nauk; KRAVTS, V.G.; KHIKHLISHKO, B.P.; STOYKO, I.V.

Investigating ore breaking with inclined borehole charges  
at the strip mine of the Poadol chemical combine. Met. 1  
gornorud. prom. no.3:56-57 My-Je '64. (MIRA 17:10)

TOYKO, N.

Time signals Astron. obs. no. 178:25-26 M= 157. (MIRA 10:2.  
(Time signals)

STOYKO, H.

Sofia Mikhailovna Varzar (1878-1957); obituary. Astron. tsir. no.  
186:25-26 H '57. (MIRA 11:4)

1. Nachal'nik Mezhdunarodnogo byuro vremeni.  
(Varzar, Sofia Mikhailovna, 1878-1957)

STOYKO, N.

Time signals. Astron. tsir. no.189:28 P '58.

(MIRA 11:8)

1.Zaveduyushchiy sluzhbami Mezhdunarodnogo Byuro Vremeni.  
(Time signals)

STOYKO, N.

Time signals. Antron. tsir. no.191:29 My '58. (MIRA 11:9)

1. Nachal'nik Mezhdunarodnogo byuro vremeni.  
(Time signals)

STOYKO, H.

Time signals. Astron. tsir. no.194:29 Ag '58. (MIRA 12:12)

1. Nachal'nik Mezhdunarodnogo Byuro vremeni.  
(Time signals)

STOYKO, N.

Time signals. Astron. tsir. no.196:19 0 '58. (MIRA 12:12)

1.Zaveduyushchiy sluzhbeni Mezhdunarodnogo byuro vremeni.  
(Time signals)



STOYKO, N.M.

Time signals. Astron. tsir. no.199:31-32 Ja '59.  
(MIRA 13:2)

1.Zaveduyushchiy Mezhdunarodnyy Byuro Vremeni.  
(Time signals)

STOYKO, H.

Time signals. Astron.tsir. no.200:29 Mr '59. (MIRA 13:2)

1. Zaveduyushchiy sluzhbami Mezhdunarodnogo byuro vremeni.  
(Time signals)

STOYKO, N.M.

Time signals. Astron.tsir. no.209:42 Nr '60.

(MIRA 13:9)

1. Zaveduyushchiy Mezhdunarodnym byuro vremeni.  
(Time signals)

STOYKO, N.M.

Ephemeris time and constant frequency for the transmission of  
time signals. Astron. tsir. no. 218:27 P '61. (MIRA 14:7)

1. Mezhdunarodnoye byuro vremeni.  
(Time signals)

BULGARIA

KOYCHEVA, V., STOYANOVA, N., Scientific Research Institute of Labor Protection and Occupational Diseases (Director, Prof. M. Lukanov)  
"Changes Under the Influence of Various Stress Factors in the Oxidase Activity Due to Ceruloplasmin"

Sofia, Eksperimentalna Meditsina i Morfologiya, Vol 5, No 1, 1966,  
pp 26-32

Abstract: The content of ceruloplasmin in the blood serum of rats was determined colorimetrically according to H. A. Ravin and by electrophoretic and immunophoretic methods after the rats had been subjected to stress by forcing them to swim until exhaustion in water at a temperature of 32, 18, or 42°. The average length of time during which the rats swam at the three temperatures was 353 min 6 sec, 14 min 7 sec, and 74 min, respectively. An unspecific increase in the ceruloplasmin

1/2

ja

AUTHOR: Yankov, Stoyko Petrov, Bulgaria. 75-b-20/23

TITLE: Qualitative Determination of the  $CN^-$ -Ions (Kachestvennoye opredeleniye iona  $CN^-$ ).

PERIODICAL: Zhurnal Analiticheskoy Khimii, 1957, Vol. 12, Nr 6, pp. 759-759 (USSR)

ABSTRACT: Applying the method of adsorption on  $Al_2O_3$ , the content of  $CN^-$ -ions with copper-acetate and benzidine is determined by the development of blue coloration. Since the ions disturbed chlorine, bromine, iodine and rhodanite, it is advisable to carry out the experiments in 95% ethyl alcohol. The sensitivity of the method amounts to  $0,15 \mu CN^-$ .

SUBMITTED: August 2, 1956

AVAILABLE: Library of Congress

1.  $CN^-$ -Ions-Determination 2.  $Al_2O_3$ -Adsorption-Application

Card 1/1

AUTHOR: Stepan Pavlov Yankov (P. I. Yankov) 75-13-2-11, 17  
 TITLE: Application of Electric Continuous Current With Some  
 Chromatographic Investigations (Ispol'zovaniye postoyannogo  
 elektricheskogo toka pri nekotorykh khromatograficheskikh  
 issledovaniyakh)  
 REFERENCES: Zhurnal Analiticheskoy Khimii, 1953, Vol. 13, No. 2,  
 p. 101-102 (USSR)  
 ABSTRACT: In the case of the presence of a solution with electric  
 conductivity in a column with an adsorbent containing the  
 reactive reagent, the sensitiveness of the chromatographic  
 methods for the proof of some ions can be increased by the  
 application of electric continuous current. A certain  
 quantity of the test solution and the developers - reagents -  
 are placed at one end of the column with the adsorbent. If  
 and when the solution does not exit the content of the column,  
 the other end of the column is put into a small dish on the  
 bottom of which is a piece of filter paper moistened with  
 distilled water. The electric current is applied in the column and wets  
 the adsorbent after its exit from the column. The column is then

Card 1/3

19-13-1-1,1"

Application of Electric Continuous Current Test . . . . .  
Investigations

fastened by a support and a platinum needle is introduced from each of the 2 sides into the plate. Since the electric conductivity in the column is very low, the two needles must be approached up to a distance which does not exceed 1 to 1.5 cm. A direct current of a relatively high voltage of 15 volts, sometimes even up to 25 volts, is applied to the platinum needles. It is important that these tests are carried out at low amperage. The best results were obtained at 0.01 - 0.02 A. A larger increase of the amperage results in most of the cases in an irregular coloration of a part in part of the column and sometimes also in the formation of a non-characteristic dark brown coloration. Positive results are obtained by the method described when the anode-needle is introduced into the end of the column through which the test solution and the developers were introduced. This method was applied for the proof of some

Card 2/3



75-13-2-1,27

Application of Electric Continuous Current With Gase C chromatographic  
Investigations

anions. The best results were obtained with the proof of the  
nitrite-ion. The carrying out of the proof reaction on  $\text{NO}_2$   
by the formation of various color lines is described. The in-  
crease of the sensitiveness by the described method is given.  
Especially with the reaction with sulfonilamide and sulfonic  
acid the sensitiveness increases highly. There is 1 figure.

W. I. 23: 27-28, 1954

1. Ionis--Chromatographic analysis
2. Electric currents--Performance
3. Reagents--Applications
4. Absorbents--Performance

Card 3/3

STOYKO, St.

"Alpine vegetation of the Riesengebirge, Kralický Sněžník and Hrubý  
Jeseník; a theory of anemo-orographic systems/ in Czech/ by Jan Jeník.  
Reviewed by St. Stoiko. Bot. zhur. 48 no.10:1542-1545 0 '63.  
(MIRA 17:1)

1. L'vovskiy lesotekhnicheskii institut.

GOLUBETS, M.A. [Holubets', M.A.]; STOYKO, S.M.

Interuniversity conference on the study of the natural  
resources of Podolia. Ukr. bot. zhur, 21 no.1:113-114  
'64. (MIRA 17:3)

STOYKO, S.M.

Investigation of certain varieties of the common oak, *quercus robur* L.  
Dop. AN URSR no.6:406-409 '53. (MLRA 7:1)

1. Institut lisivnitstva Akademii nauk Ukrain's'koi SSR. Predstaviv  
diysniy chlen Akademii nauk Ukrain's'koi SSR P.S. Pogrebnyak.  
(Oak)

... - "Deer Forests of the Trans-Carpathians and Means of Increasing their Productivity." Acad. Sci. Ukraine USSR, Inst of Botany, Kiev, 1951. (Dissertation for the Degree of Candidate of Biological Sciences)

Sp: Krasnaya Letovis' No. 24, June 1951, Moscow

STOYKO, S.M.

Natural stands of the oak *Quercus petraea* Liebl. in the beech zone of Transcarpathia. Bot.zhur. [Ukr.] 12 no.4:66-74 '55. (MLRA 9;3)

1. Institut lisivnitstva AN URSS.  
(Transcarpathia--Oak)

STOLYKO, S.P.

On the necessity of restoring reserves in the extensive and valuable  
Transcarpathian forests. Bot. zhurn. 42 no.9:1416-1426 1957. (MIRA 1957)

1. L'vivskiy lesotekhnicheskii institut.  
(Transcarpathia--Forest reserves)

COUNTRY : USSR  
 CATEGORY : Forestry. Forest Management. K  
 ABS. JOUR. : PZhBiol., No. 4, 1959, No. 1977  
 AUTHOR : . . . . .  
 INST. : . . . . .  
 TITLE : . . . . . about the improvement of the  
 forest . . . . . in the . . . . .  
 ORIG. PUB. : . . . . , 1958, No. 4, 9-13  
 ABSTRACT : . . . . . which have become non-existent in the  
 . . . . . have been . . . . . into . . . . .  
 . . . . . of . . . . . in mountainous  
 . . . . . . . . . . . in the  
 . . . . . in the . . . . . . . . . . .  
 . . . . . in the broad-leaved-needle forests  
 . . . . . of . . . . . for  
 . . . . . in the . . . . . . . . . .  
 . . . . . to be used for restoration of  
 . . . . . forest reservations which have been

Card: . / 2



STOYKO, S.M.

Books on the Tatra National Park. Ukr.bot.shur. 16 no.6:106-110  
'59. (MIRA 13:5)

(Tatra National Park--Botan")

STOYKO, S.M.

Protection of nature in the people's democracies. Mat.pro okhor.  
pryr.na Ukr. no.2:101-110 '60. (MIRA 1968)  
(national parks and reserves)

STOYKO, S.M.

Interesting habitat of *Juniperus sabina* L., a hitherto unknown  
species in the Ukrainian Carpathians. Ukr.bot.zhur. 17  
no.3:72-78 '60. (MIRA 13:7)

1. L'vovskiy lesotekhnicheskii institut.  
(Transcarpathia--Juniper)

STOYKO, S.M., kand.biolog.mauk (L'vov)

Yev. Nauka i zhyttia 11 no. 4:36-37 Ap '61.  
(Yev)

(MIRA 14:5)

STOYKO, S.M

"Bibliography of the flora of Czechoslovakia" by Jan Putak and  
Karol Domin. Reviewed by S.M. Stoiko. Bot. zhur. 46 no.8:  
1217-1218 Ag '61. (MIRA 15:1)

1. L'vovskiy lesotekhnicheskii institut.  
(Bibliography--Czechoslovakia--Botany)  
(Czechoslovakia--Botany--Bibliography)  
(Putak, Jan) (Domin, Karol)

STOYKO, S.M.

Present state and current tasks in the protection of nature in  
the Ukrainian Carpathians. Okhr.prif.i zapov.delo v SSSR no.7:  
7-24 '62. (MIRA 16:4)  
(Carpathian Mountains—Conservation of natural resources)



BULGARIA/ Farm Animals. Small Horned Stock.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40475.

Author : Ganovskiy Khr., Stoykov D., Shishkov, Iv.

Inst : Not given.

Title : The Study of the Digestibility and Nutritiousness of Alfalfa and Clover.

Orig Pub: Nauchn. tr. Vissn. veterinarnomed. in-t, 1956, 4  
441-453.

Abstract: An experiment was carried out on fistulous and on normal sheep. It was found that intestinal digestion is intensified under the influence of succulent feeds, such as alfalfa and clover, which contributes to the higher consumption of these feeds. The amount of the chyme attains 28.152 liters per day and the average amount of

Card 1/2



BULGARIA/Diseases of Farm Animals. Pathology of Reproduction

R-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31135

Author : Minchev P., Stoykov D.

Inst : Institute of ~~Experimental~~ Veterinary Medicine, Bulgarian  
AS

Title : On Chronic Endometria in Heifers and Their Paragenital  
Treatment with Morphine

Orig Pub : Izv. In-ta eksperim. vet. med. B"lg. AN, 1956, No 5, 95-104

Abstract : Morphine was used in doses of 0.1-0.3 g. in 1% aqueous solution, in a series of 3 injections at intervals of 2-3 days, followed by a repetition of this course of treatment after 4-6 days. Of 69 heifers (41 with chronic mucopurulent endometritis and 28 with purulent endometritis), recovery and fertilization were obtained in 61 cases (80%). The author explains the therapeutic effectiveness of morphine by its action on the sexual center of the subcortex during the inhibition of the cortex of the cerebrum, as well as by its direct stimulation due to which the efferent pathological in-

Card : 1/2

STOYKOV, G. N., PERI, I.S., and RUSKOV, L.S.

1: Schnipovskiy Land, 11/13 fl. 63, Moscow-"Growing of Piezoelectric Crystals in USSR"  
(Section 14-15) a paper submitted at the General Assembly and International Congress  
of Crystallography, 10-19 Jul 57, Montreal, Canada.

C-3,800,189

POPOV, G.; STOYKOV, M.; IVANOV, A.; GOSPODINOV, B.; SEDLOYEV, S.;  
STOYANOV, Ye.; VOLCHANOVA, S.; KOLEV, L.

Extracardial anastomoses in congenital and acquired heart  
defects in experiment. Khirurgia 36 no.3:38-41 Mr '60.

(HEART--SURGERY)

(MIRA 13:12)

" ABIA Chemical Technology - Chemical Products and Their  
Application, Part 3. - Carbohydrates and Their  
Treatment.

H-25

Ans Jour : Ref Zhur - Khimiya, No 7, 1958, 22968  
Author : S.A. Stoykov  
Inst : -  
Title : Pectin from Sunflower Calathides.  
Orig Pub : Khimiya i Industriya, 1957, 29, No 4, 23-24  
Abstract : A brief review.  
Bibliography with 12 titles.

Card 1/1



TRUBIK, Irina Felorovna. STOLYKOVA, Valentina Nikolayevna

[Guide for the translation of technical material from  
English into Russian] Porobie po perevodu tekhnicheskikh  
tekstov s angliiskogo iazyka na russkii. Izd. 2. Moskva,  
Vysshaya shkola, 1963. 154 p. (NIPA 1714)

L 11384-63

Pab-4 WH

EPP(n)-2/EWP(q)/EWT(m)/BDS/T-2/ES(w)-2 AFFTC/ASD/SSD Pu-4/  
S/120/63/000/002/028/041

AUTHOR: Stoykovich, Ye., Bachu, G., Bedenoyu, M., Chentys, N., and (A) <sup>73</sup>  
Khal'trikh, S.

TITLE: Use of ceramics in betatron accelerating chambers

PERIODICAL: Pribery i tekhnika eksperimenta, March-April 1963, v. 8, no. 2,  
124-126

TEXT: The authors give instructions for making betatron <sup>19</sup>accelerating  
chambers of ceramics which eliminate the deficiencies of glass and epoxy resins.  
A chamber made according to the authors' prescription has been successfully used  
for several years at the Atomic Physics Institute of the Academy of Sciences of  
Rumania; the only repair necessary was replacement of metallic coating near the  
injector. There is one figure.

ASSOCIATION: Institut atomnoy fiziki AN Rumynii (Atomic Physics Institute,  
Academy of Sciences Rumania)

SUBMITTED: February 12, 1962

Card 1/1 J3/1

STOYLIK, M. A.

29047-Opyt Raboty Varegovskoy Peregruzochnoy Estakady. Torf. Prom-st, 1949  
No. a, s. 22-24

SO: Letopis' Zhurnal'nykh Stroy, Vol. 39, Moskva, 1949



1. BROVINK, V.A.
2. USSR (600)
4. Technology
7. Mechanization of peat transport. Moskva, Gosenergoizdat, 1952
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

.T. 111, N. A.

Peat Industry

Methods of reloading peat.

Torf. prom. 29, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

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 PYTOV, I.Ye., kand.sel'skokhoz.nauk; BLTUMENBERG, V.V., kand.tekhn.  
 nauk; BOGDANOV, M.N., kand.tekhn.nauk; BRAGIN, N.A., inzh.; VASIL'YEV,  
 Yu.K., inzh.; VINOGRADOV, V.A., inzh.; ROZENBERG, B.I., inzh.; GOR-  
 GIDZHANYAN, S.A., kand.tekhn.nauk; ZIZA, A.A., kand.sel'skokhoz.nauk;  
 KALABUKHOV, M.V., agronom-meliorator; KOLOTUSHKIN, V.I., inzh.; KORCHU-  
 NOV, S.S., kand.tekhn.nauk; KRYUKOV, M.N., dotsent; VAVULO, V.A., inzh.;  
 NAUMOV, D.K., kand.tekhn.nauk; OLENIN, A.S., inzh.; PROVORKIN, A.S.,  
 inzh.; PROKHOROV, N.I., dotsent; RASKIN, G.I., inzh.; SAVENKO, I.V.,  
 inzh.; SERGEYEV, B.F., kand.tekhn.nauk; STOYLIK, M.A., inzh.; SUKHA-  
 NOV, M.A., inzh.; TOPOL'NITSKIY, N.M., kand.tekhn.nauk; TYURBNOV, S.N.,  
 doktor biol.nauk, prof.; PATCHIKHINA, O.Ye., kand.sel'skokhoz.nauk;  
 TSVETKOV, B.I., inzh.; CHUBANOV, N.D., inzh.; MANDEL'BAUM, A.I., inzh.;  
 (Continued on next card)

ANTONOV, V.Ya.---(continued) Card ..

YAKTSEV, A.K.; SAMSONOV, N.M., inzh., glavnyy red.; BERSHADSKIY, L.S., inzh., nauchnyy red.; VARENTSOV, V.S., kand.tekhn.nauk, nauchnyy red.; VYSOTSKIY, K.P., kand.tekhn.nauk, nauchnyy red.; GORINSHTEYN, L.L., kand.tekhn.nauk, nauchnyy red.; GORYACHKIN, V.G., prof., nauchnyy red.; YEFIMOV, P.N., kand.tekhn.nauk, nauchnyy red.; KUZMAN, G.I., kand.tekhn.nauk, nauchnyy red.; KULAKOV, N.N., kand.tekhn.nauk, nauchnyy red.; KUTAIS, L.I., prof., doktor tekhn.nauk, nauchnyy red.; MIRKIN, M.A., inzh., nauchnyy red.; SEMENSKIY, Ye.P., kand.tekhn.nauk, nauchnyy red.; SOKOLOV, A.A., kand.tekhn.nauk, nauchnyy red.; KHAZANOV, Ya.N., dotsent, nauchnyy red.; KHALUJO, A.K., inzh., nauchnyy red.; TSUPROV, S.A., dotsent, nauchnyy red.; SHCHYINBOX, G.D., inzh., nauchnyy red.; KOLOTUSHKIN, V.I., red.; SKVORTSOV, I.M., tekhn.red.

[Reference book on post] Spravochnik po postu. Moskva, Gos.energ. izd-vo, 1954. 728 p. (MIRA 13:7)

1. Chlen-korrespondent AN BSSR (for Goryachkin).  
(Post--Handbooks, manuals, etc.)

VYSOTSKIY, Konstantin Petrovich; LARIONOV, Vladimir Sargeyevich; SAMOYLOV,  
Pavel Pavlovich, inzhener [deceased]; STOYLIK, M.A., redaktor;  
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[Transportation of peat] Transport terfa, Moskva, Oos.energ.isd-vo,  
1955. 256 p. (MLRA 9:4)

(Peat--Transportation)

STOYLIX, M.A., inzh.

Ways of reducing capital outlays for peat transportation. Torf.  
prom. 16 no.2:12-15 '59. (MIRA 12:4)

1. Giprotorf. (Peat--Transportation)

GRACHEV, Viktor Anatol'yevich; STOYLIN, Mikhail Alekseyevich. Prinimal  
uchastiye FADEYEV, V.G.; FEDOROV, V.V., kand. tekhn. nauk, retsen-  
zent; MERKUSHEV, R.N., kand. tekhn. nauk, dotsent, red.; BORUNOV,  
N.I., tekhn. red.

[Railroad transportation in the peat industry] Zheleznodorozhnyi  
transport torfianoi promyshlennosti. Moskva, Gos. energ. izd-vo,  
1960. 291 p. (MIRA 14:10)  
(Railroads, Industrial) (Peat industry)

L 11962-65  
 ENG(j)/EWA(k)/FBD/ENT(l)/ENP(e)/ENT(n)/EEC(k)-2/EEC(t)/T/  
 EEC(b) 2/ENP(r)/EWA(m)-2/EWA(h) Pn-4/Po-4/Pf-4/Pi-4/Pi-4/Peb IJP(c)/SSD/AFWL/  
 AFETR/PSD/RAEM(a)/ASD(a)-5/ASD(d)/ESD(g)/ESD(t) NG/WH  
 S/0036/64/047/004/1595/1597  
 ACCESSION NR: AP4047933

AUTHOR: Basov, N. G.; Ambartsumyan, R. V.; Zuyev, V. S.; Kryukov,  
P. G.; Stoylov, Yu. Yu.

TITLE: Q-switched laser <sup>25</sup>

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47,  
 no. 4, 1964, 1595-1597

TOPIC TAGS: laser, ruby laser, laser amplifier, Q switch, Q switching  
 laser

ABSTRACT: The gross output characteristic of a Q-switched ruby laser <sup>15</sup>  
 was plotted by using a Kerr cell in combination with a polarizing  
 prism as the shutter. The ruby rod was 12 cm long, 0.9 cm in diameter,  
 and had a Cr<sup>3+</sup> concentration of 0.06%. A helical flash lamp was en-  
 ergized by an 8-kv, 300-μf power supply and produced a 700-μsec pulse.  
 The Kerr cell was energized by a 0.5-μsec pulse, whose rise time was  
 5 nanoseconds, 500 μsec after ignition of the flash lamp. The laser  
 then emitted a single pulse with an energy of 1.8 joules. The addi-  
 tion of a second ruby laser as an amplifier produced an output pulse  
 of 8 joules having a steeper form. Orig. art. has: 2 figures.  
 Card 1/2



L 11962-65

ACCESSION NR: AP4047933

ASSOCIATION: none

SUBMITTED: 10Jul64

ATD PRESS: 3120

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 001

Card 2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420006-4

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420006-4"

ARASHKEVICH, V.M., dotsent; VIKSILOV, A.I., professor; VOLOTKOVSKIY, S.A., professor; ZHUKOV, L.I., dotsent; IPPOLITOV, M.D., dotsent; KUTYUKHIN, P.I., dotsent; KOMPANEVETS, V.P., dotsent; MALAKHOV, A.Ye., professor; NEUDACHIN, O.I., dotsent; RYABUKHIN, O.Ye., professor; SAKOVITSEV, O.P., dotsent; STOILOV, B.A., dotsent; TROP, A.Ye., dotsent; FEDOROV, S.A., professor; YAKUSH, A.Ye., dotsent, redaktor; TARKHOV, A.G., redaktor; GAMBURTSEVA, Ye.Ye., redaktor; GUREVA, O.A., tekhnicheskij redaktor.

[Collection of articles on geophysical methods of prospecting]  
Sbornik statei po geofizicheskim metodam razvedki. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1955. 109 p.  
(MLRA 8:11)

1. Sverdlovsk.Gornyy institut.  
(Prospecting--Geophysical methods)

ARASHKEVICH, V.M., dotsent, redaktor; VESSELOV, A.M., professor, redaktor;  
VOLOTKOVSKIY, S.A., professor, redaktor; ZHUKOV, L.I., dotsent,  
redaktor; IPPOLITOV, N.D., dotsent, redaktor; KAMPANEYTS, V.P.,  
dotsent, redaktor; KUTYUKHIN, P.I., dotsent, redaktor; MALAKHOV,  
A.Ye., professor, redaktor; MEUDACHIN, G.I., dotsent, redaktor;  
RYABUKHIN, G.Ye., professor, redaktor; SAKOVTSKY, G.P., dotsent,  
redaktor; STOYLOV, B.A., dotsent, redaktor; THOP, A.Ye., dotsent,  
redaktor; FEDOROV, S.A., professor, redaktor; YAROSH, A.Ye.,  
dotsent, redaktor; SLAVOROSOV, A.Kh, redaktor izdatel'stva;  
ALADOVA, Ye.I., tekhnicheskiy redaktor

[Problems in the efficient organization of surveying in mining  
enterprises] Voprosy ratsionalizatsii marksheiderskoi sluzhby na  
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(MLRA 9:10)

1. Sverdlovsk. Gornyy institut.  
(Mine surveying)

STOYLOV, B.A., date.; MURAVYEV, V.I., 1971.

Prospects for narrow-range working in conditions of the Chelyabinsk  
Coal Basin. Izv. vys. ucheb. zav.; gor. zhur, no.1112-18 '82.  
(MIRA 11:5)

1. Overdlovskiy gornyy institut.  
(Chelyabinsk Basin--Coal mines and mining)

Investigations on the alveolar layer. Doncho Kotev, Maral Shoykov, George Strehov, Ivan Grigorev, and Nikola Runkov (Bulg. Acad. Sci., Bulgaria). *Z. Pflanzenernähr.* 20, 117 (1987); *Chem. Zvest.* 1988, 11, 155. The alveolar layer surrounds the endosperm in grains. Proteins are stored in this layer, so that histological studies of the layer aids in the selection of protein-rich grain. Proteins are also present in the embryo. M. G. Moore

CZECHOSLOVAKIA

STOYLOV, S

Institute of Physical Chemistry, Bulgarian Academy  
of Sciences, Sofia, Bulgaria

Prague, Collection of Czechoslovak Chemical Communications,  
No 7, July 1966, pp 2866-2877

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field. Part 1. Theory of the effect for rod-like particles."

STAYLOV, Yuriy Ivanovich; KONYUKHOV, Sergey Mikhaylovich; POKRAS, Yuriy  
L'vovich; KAZAK, Anufriy Ivanovich; SHABASHOV, A.P., kand. tekhn.  
nauk, retsenzent; GEKTINA, A.F., inzh., red.; LUGINA, N.A., tekhn.  
red.

[Single-bucket excavators; use and maintenance of excavators with  
capacities of 0,15 - 1.25 cu.meters] Odnokovshovye ekskavatory;  
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0,15 - 1,25 m<sup>3</sup>. Moskva, Mashgiz, 1961. 323 p. (MIRA 14:12)  
(Excavating machinery)



L 1379-66 EWA(h)/FBD/EWT(1)/EEC(h)-2/T/EMP(h)/EWA(m)-2/EWA(h) SCTB/IJP(c)  
 ACCESSION NR: AP5022443 W3 UR/0109/65/010/009/1729/1730  
 621.378.325.001.5:621.383.38  
 AUTHOR: Ambartsunyan, N. V.<sup>44</sup>; Basov, R. G.<sup>44</sup>; Yeliseyev, P. D.<sup>44</sup>; Zhurav, Y. N.<sup>44</sup> 62  
 Kryukov, P. O.<sup>44</sup>; Stoylov, Yu. Yu.<sup>44</sup> B  
 TITLE: The measurement of the time parameters of a giant pulse laser by means of a photodiode 25, 14  
 SOURCE: Radiotekhnika i elektronika, v. 10, no. 9, 1965, 1729-1730  
 TOPIC TAGS: giant pulse laser, gallium arsenide, photodiode, resolving time, Kerr cell, photomultiplier  
 ABSTRACT: The time-dependent characteristics of a giant pulse laser switched by a Kerr cell were measured by means of a gallium arsenide photodiode. The photodiode was obtained by diffusion of cadmium into n-type GaAs with a  $2 \times 10^{18} \text{ cm}^{-3}$  concentration of tellurium during a period of 60 hr. The depth, thickness, and area of the p-n junction were 80  $\mu$ , 0.9  $\mu$ , and  $2.5 \times 10^{-3} \text{ cm}^2$ , respectively. The photodiode was pumped at right angles by a nonfocused laser beam and the pulse width from the photodiode (connected across a 75-ohm load) was 40 nanosec at room temperature, and 20 nanosec at 77K. The results indicate that the resolving time of the  
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photodiode is not greater than 5 nanosec, a quality which makes it competitive with photomultipliers. Unlike photomultipliers, which introduce a signal time lag, photodiodes are capable of accurately determining the time lag of a laser pulse released by the Kerr cell. The experimental value of the lag was 80 nanosec. Orig. art. has: 2 figures. (YK)

ASSOCIATION: none

SUBMITTED: 09Dec64

ENCL: 00

SUB CODE: BC

NO REF SOV: 001

OTHER: 001

ATD PRIMS: 4092

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L 59527-45

ACCESSION NR: AP5016549

operation is one in which one-dimensional motion of plasma occurs, since three-dimensional motion leads to rapid reduction in density and a decrease in the relative fraction of the laser radiation absorbed in the plasma. Under these conditions the maximum achievable temperature is determined by the energy loss due to radiation and thermal conductivity. The authors then report the results of a spectral analysis of the emission from a plasma produced by focusing the radiation from a neodymium glass Q-switched laser on the surface of a solid sample of lithium in vacuum. The laser radiation consisted of two pulses, each with energy approximately 3J and each approximately 40 nsec in length. The estimated obtained temperature in this case is of the order of 20 eV ( $2.3 \times 10^5$  deg). In the case of breakdown produced in air of normal density by a ruby laser pulse of approximately 3J the corresponding temperature cannot exceed 10.5 eV. Orig. art. has: 3 figures and 3 formulas.

(02)

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SUBMITTED: 16Jan65

EXCL: 00

SUB CODE: EC, ME

NO REF SOV: 009

OTHER: 003

ATD PRESS: 4053

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